

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/013722

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68 G01N33/50 G01N33/574

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, Sequence Search, CHEM ABS Data, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	OKABE H ET AL: "Genome-wide analysis of gene expression in human hepatocellular carcinomas using cDNA microarray: Identification of genes involved in viral carcinogenesis and tumor progression" CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 61, no. 5, 1 March 2001 (2001-03-01), pages 2129-2137, XP002235524 ISSN: 0008-5472 cited in the application	1-7
Y	Hs.42949 corresponds to HES6 abstract page 2129, column 2, paragraph 2 - page 2131, column 1, paragraph 2 page 2133, column 2, paragraph 2 page 2137, column 2, paragraph 3; table 1 ----- -/--	8-13, 15-19,23

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

17 March 2005

Date of mailing of the international search report

07/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Tilkorn, A-C

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/013722

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/008578 A (BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS; PRIMIANO, THOMAS; CHA) 30 January 2003 (2003-01-30)	14,21, 22,25
Y	SEQ ID NO: 99 abstract page 8, line 15 - page 9, line 8 page 10, line 22 - line 31 page 13, line 32 - page 15, line 28 page 24, line 1 - line 23 page 38, line 23 - line 28 tables 1,3,4	8-13, 15-19,23
A	----- THOMPSON J D: "Applications of antisense and siRNAs during preclinical drug development" DRUG DISCOVERY TODAY, ELSEVIER SCIENCE LTD, GB, vol. 7, no. 17, 1 September 2002 (2002-09-01), pages 912-917, XP002236964 ISSN: 1359-6446 the whole document	16,17, 21,22,25
A	----- WO 03/027143 A (JAPAN AS REPRESENTED BY THE PRESIDENT OF THE UNIVERSITY OF TOKYO; ONCO) 3 April 2003 (2003-04-03) the whole document	1-19, 21-23,25
A	----- WO 03/025228 A (PROTEOLOGICS, INC; REISS, YUVAL; ALROY, IRIS) 27 March 2003 (2003-03-27) the whole document -----	1-19, 21-23,25

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP2004/013722

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 15-19 (with respect to IA)  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 15-19 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 20, 24  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

## Continuation of Box II.1

Although claims 15-19 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

-----

## Continuation of Box II.2

Claims Nos.: 20,24

Claims 20 and 24 lack clarity (Art 6 PCT) because they do not allow the definition of any structural feature of the compounds to be used in the method or incorporated in the composition respectively. However, such a feature is essential to understand the scope of the claims. Since the description provides no examples of any such compounds, no search at all was possible with respect to claims 20 and 24.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/013722

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03008578	A	30-01-2003	CA 2454423 A1	30-01-2003
			EP 1427855 A2	16-06-2004
			WO 03008578 A2	30-01-2003
			WO 03007884 A2	30-01-2003
			US 2003180739 A1	25-09-2003
-----				
WO 03027143	A	03-04-2003	EP 1434879 A2	07-07-2004
			EP 1430152 A2	23-06-2004
			WO 03027322 A2	03-04-2003
			WO 03027143 A2	03-04-2003
			JP 2005503176 T	03-02-2005
			US 2005019768 A1	27-01-2005
			US 2004235018 A1	25-11-2004
			CA 2399569 A1	25-03-2003
-----				
WO 03025228	A	27-03-2003	WO 03025228 A1	27-03-2003
			US 2005004017 A1	06-01-2005
-----				